

FIG. 1

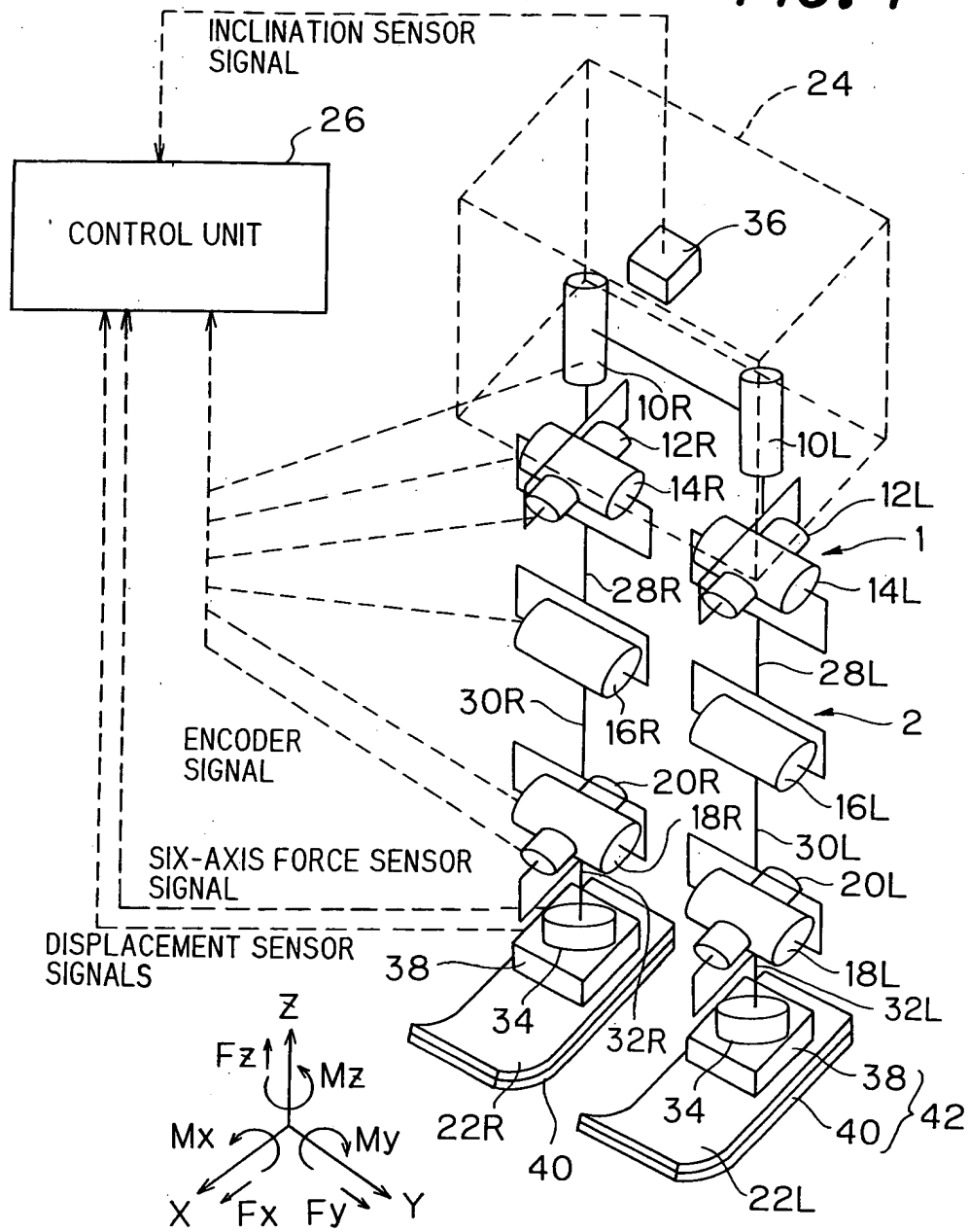


FIG. 2

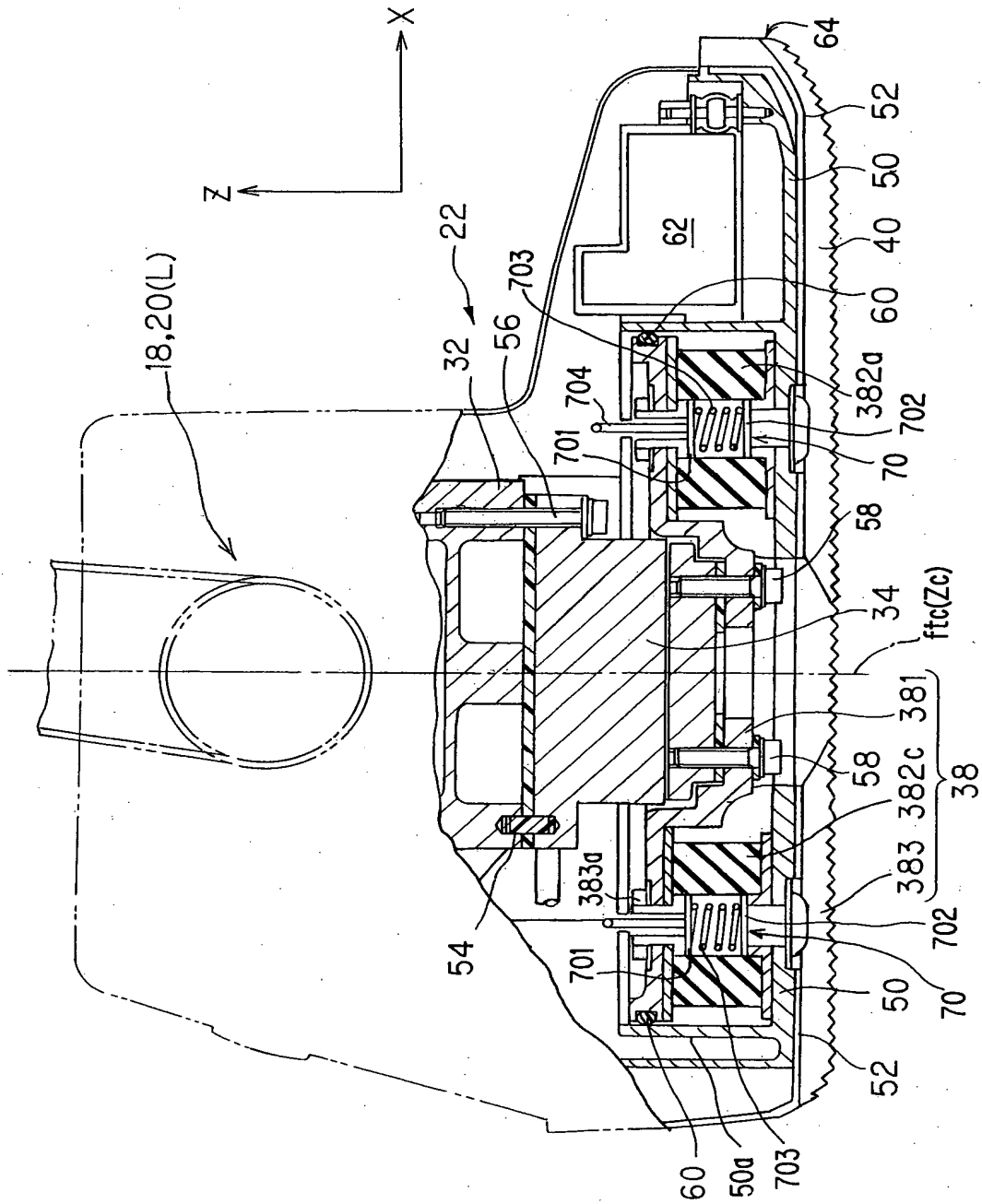


FIG. 3

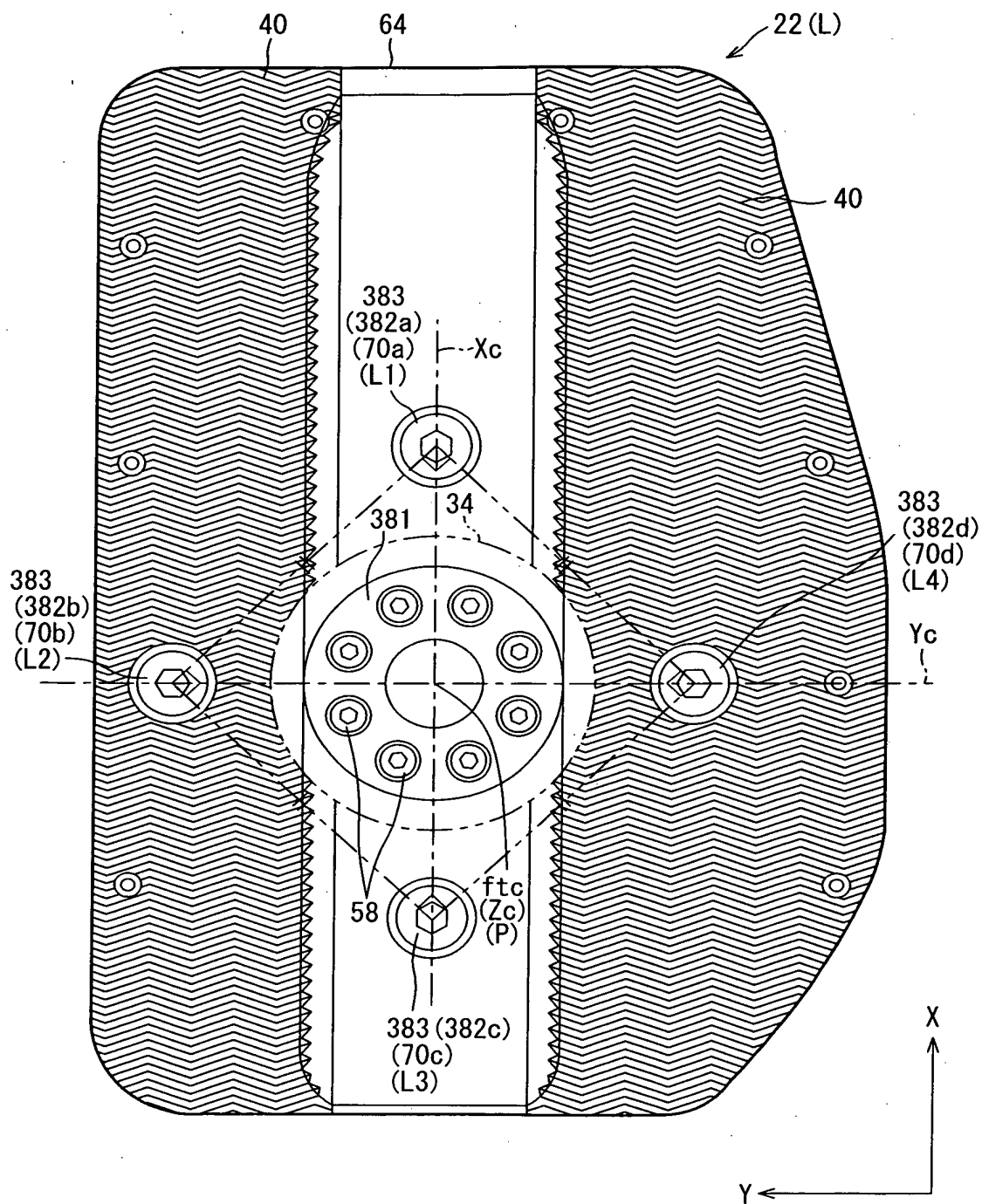


FIG. 4

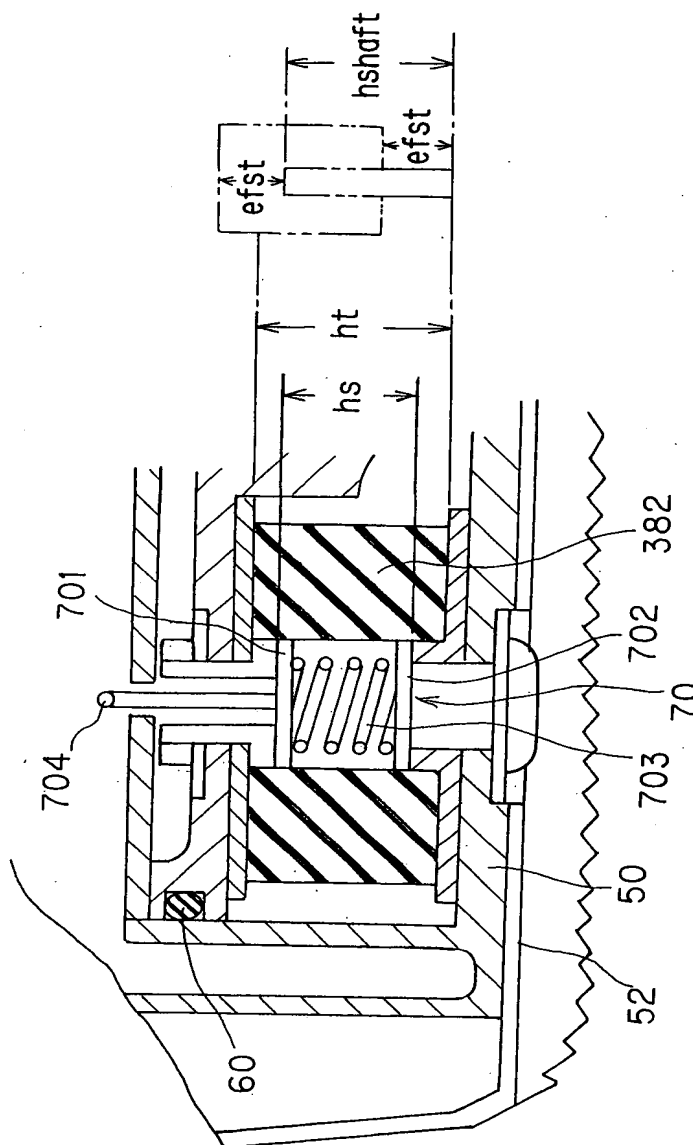
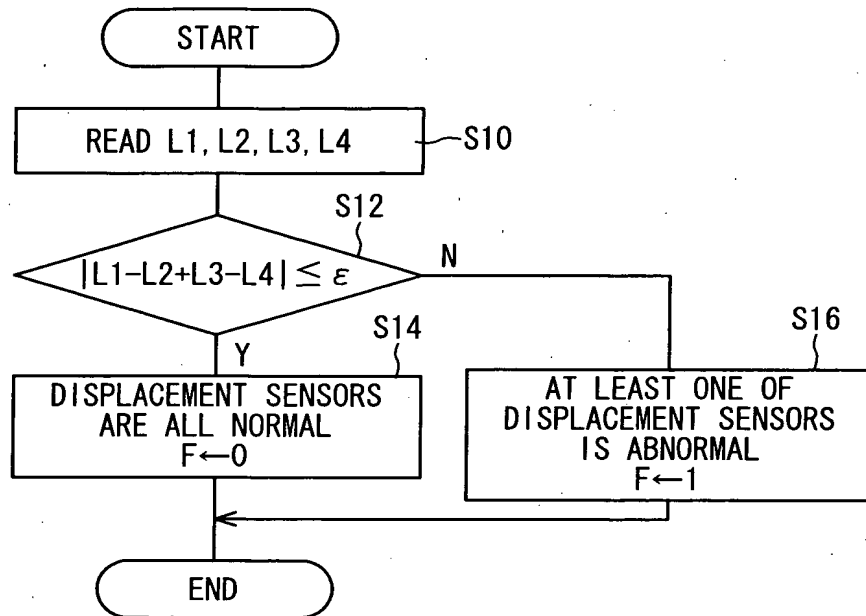
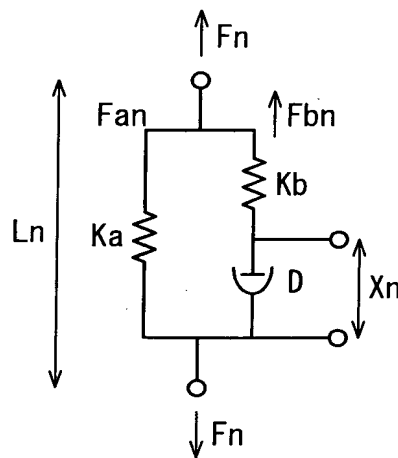


FIG. 5**FIG. 6**

IN THE ABOVE

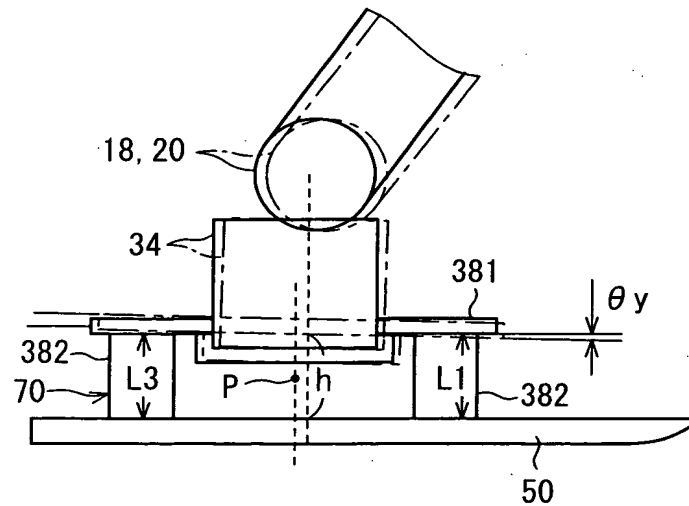
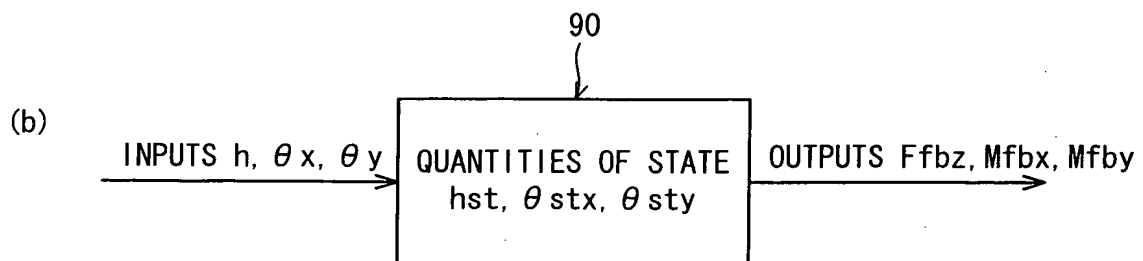
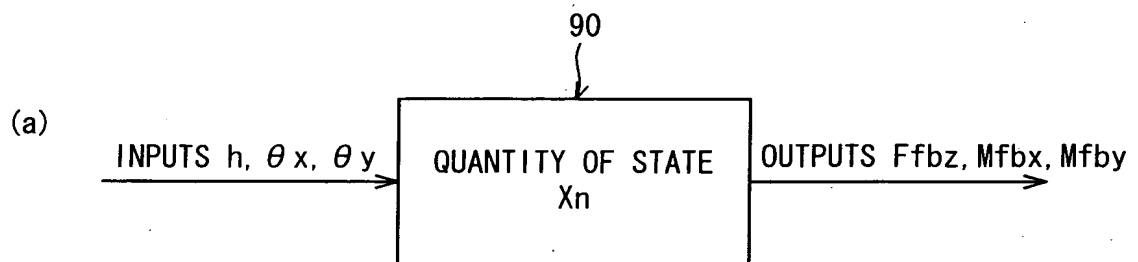
$$F_n = F_{an} + F_{bn}$$

$$F_{an} = -K_a L_n + C_1$$

$$F_{bn} = -K_b (L_n - X_n) + C_2$$

$$F_{bn} = -D * \frac{d}{dt} X_n$$

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FIG. 7**FIG. 8**

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FIG. 9

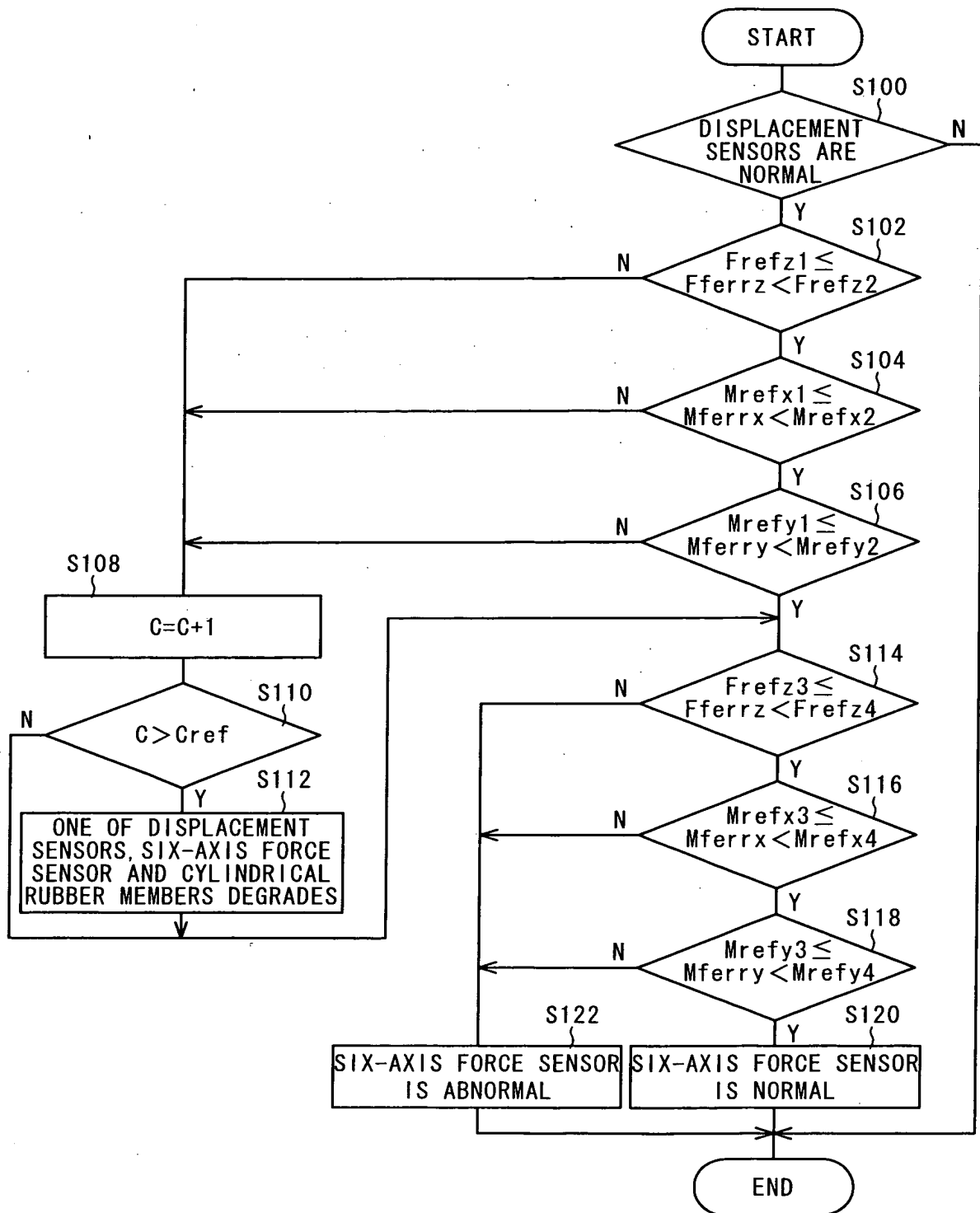
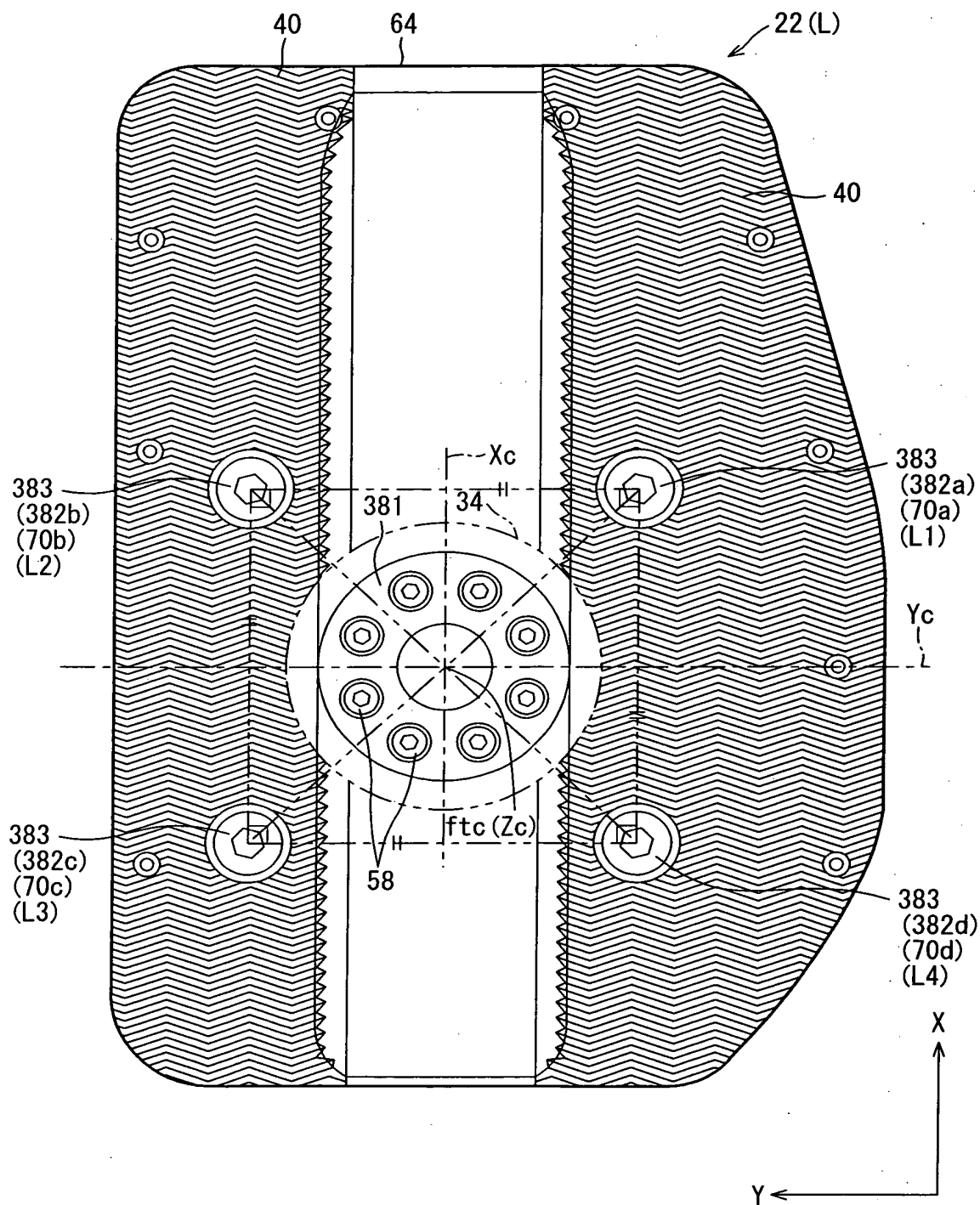


FIG. 10



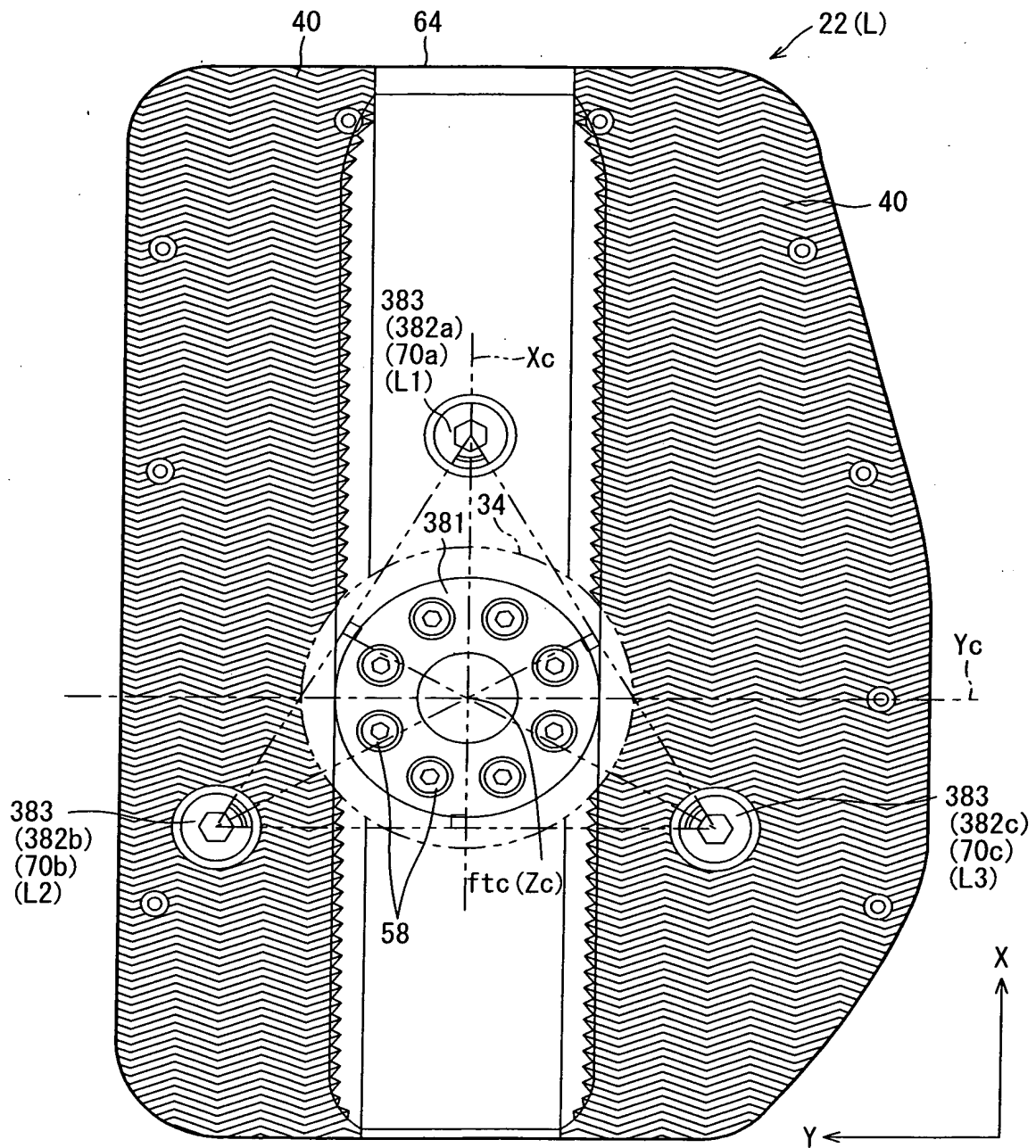


FIG. 12

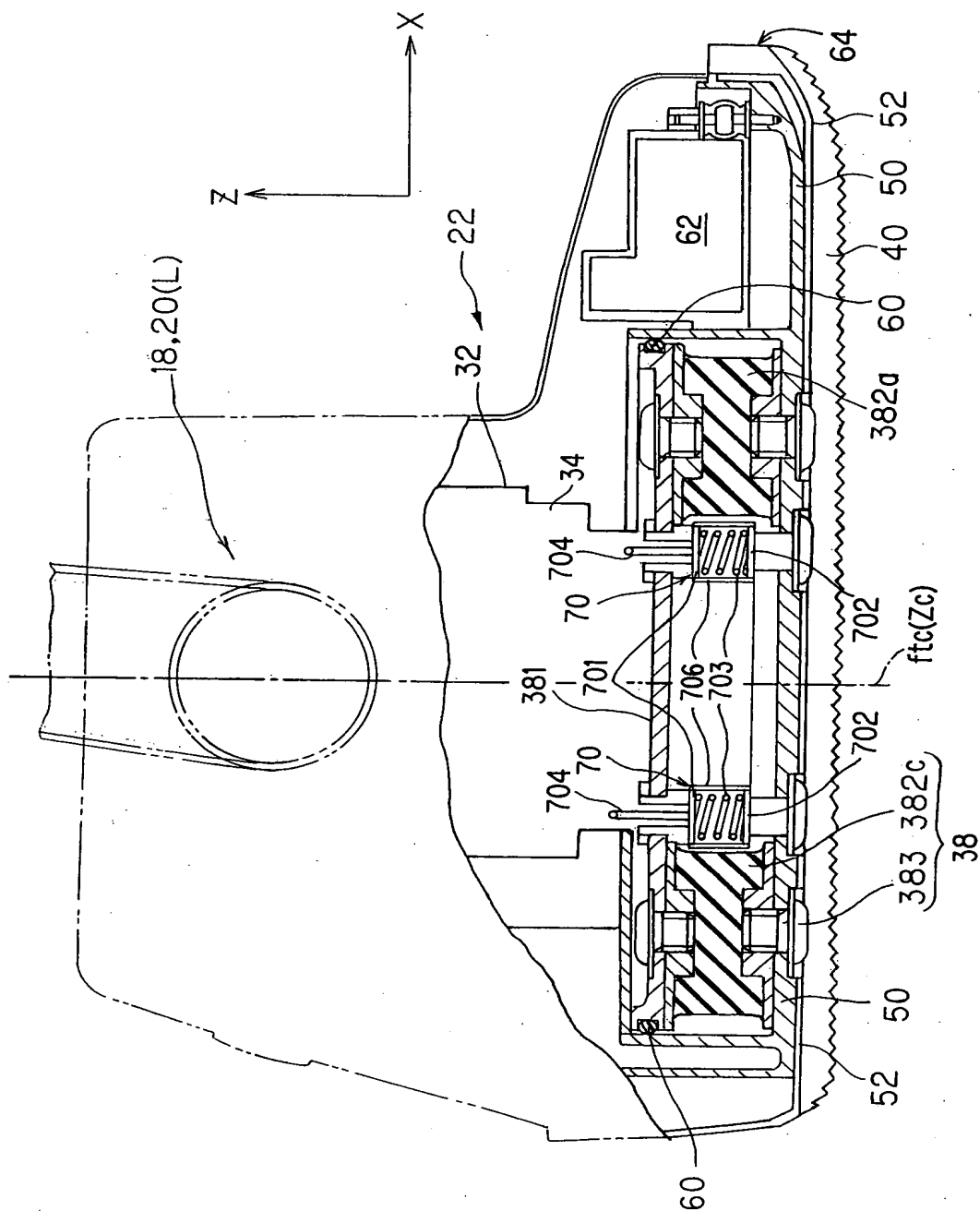


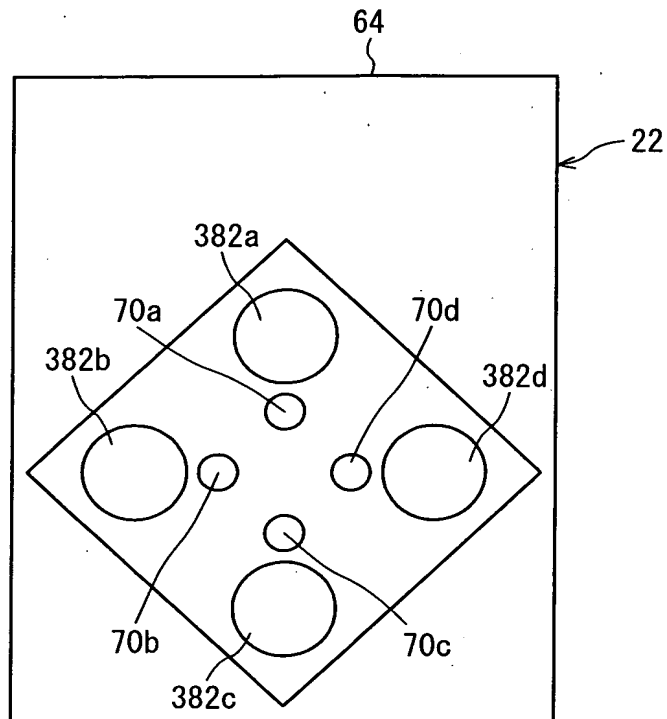
FIG. 13

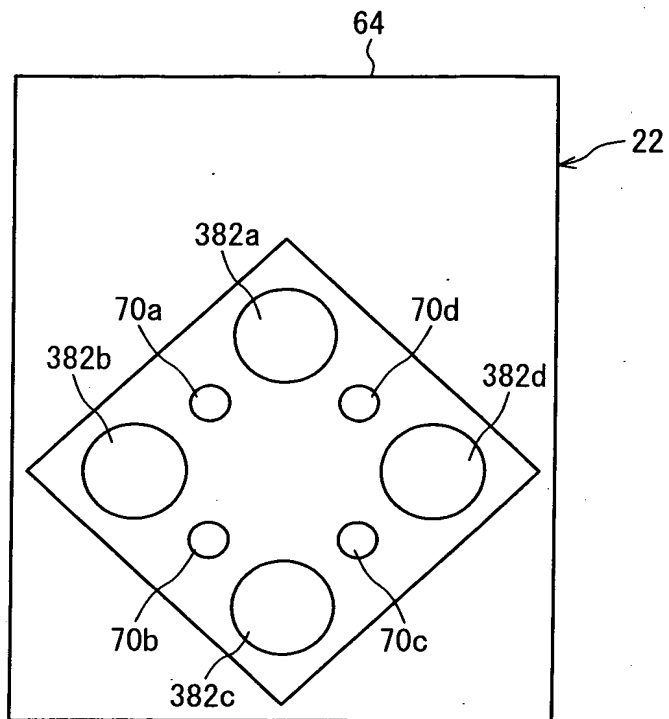
FIG. 14

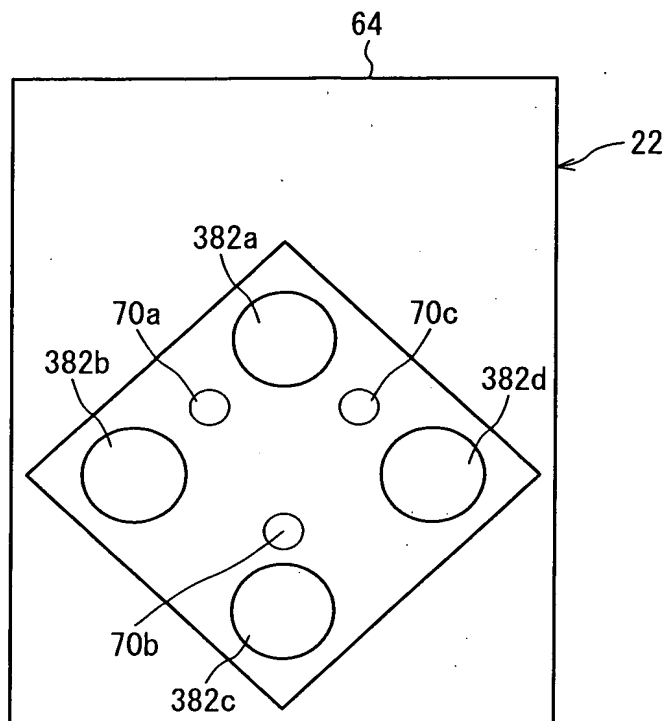
FIG. 15

FIG. 17

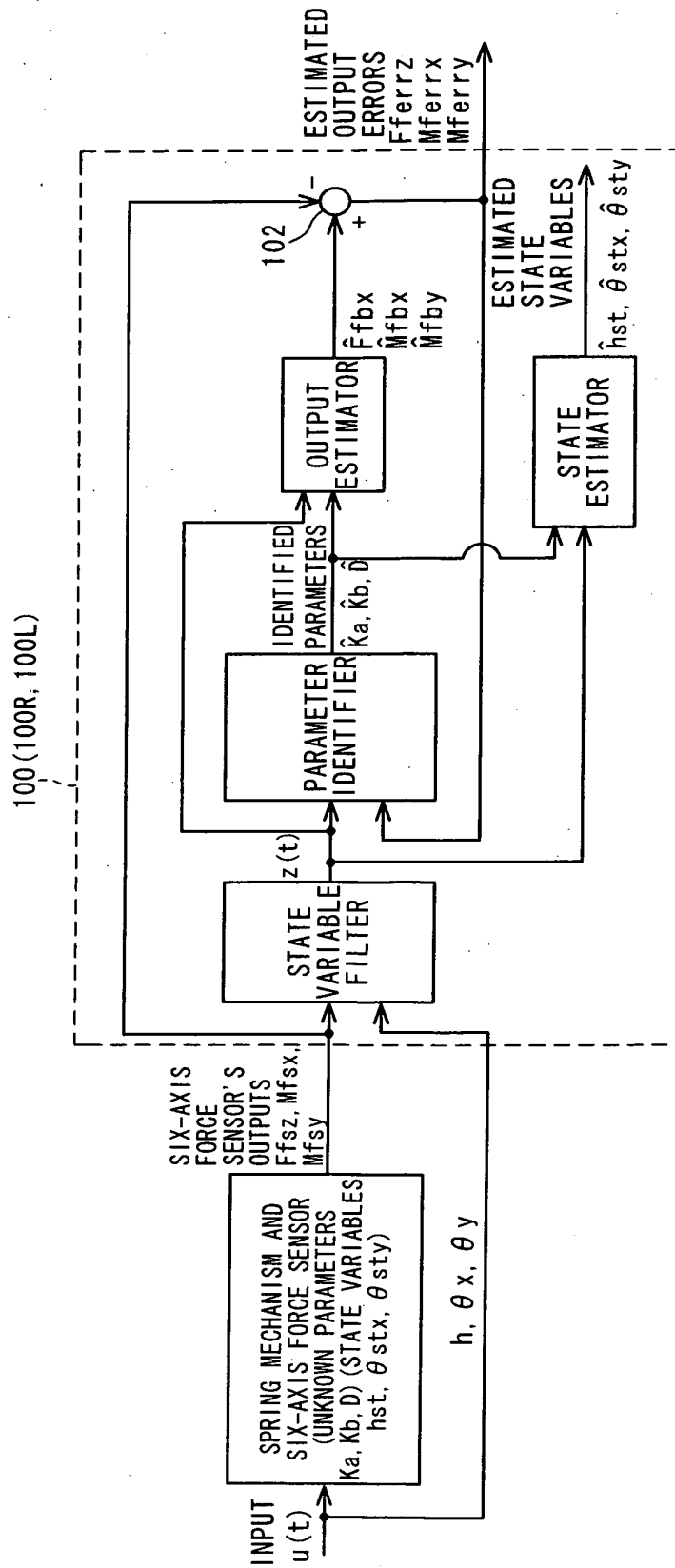


FIG. 18

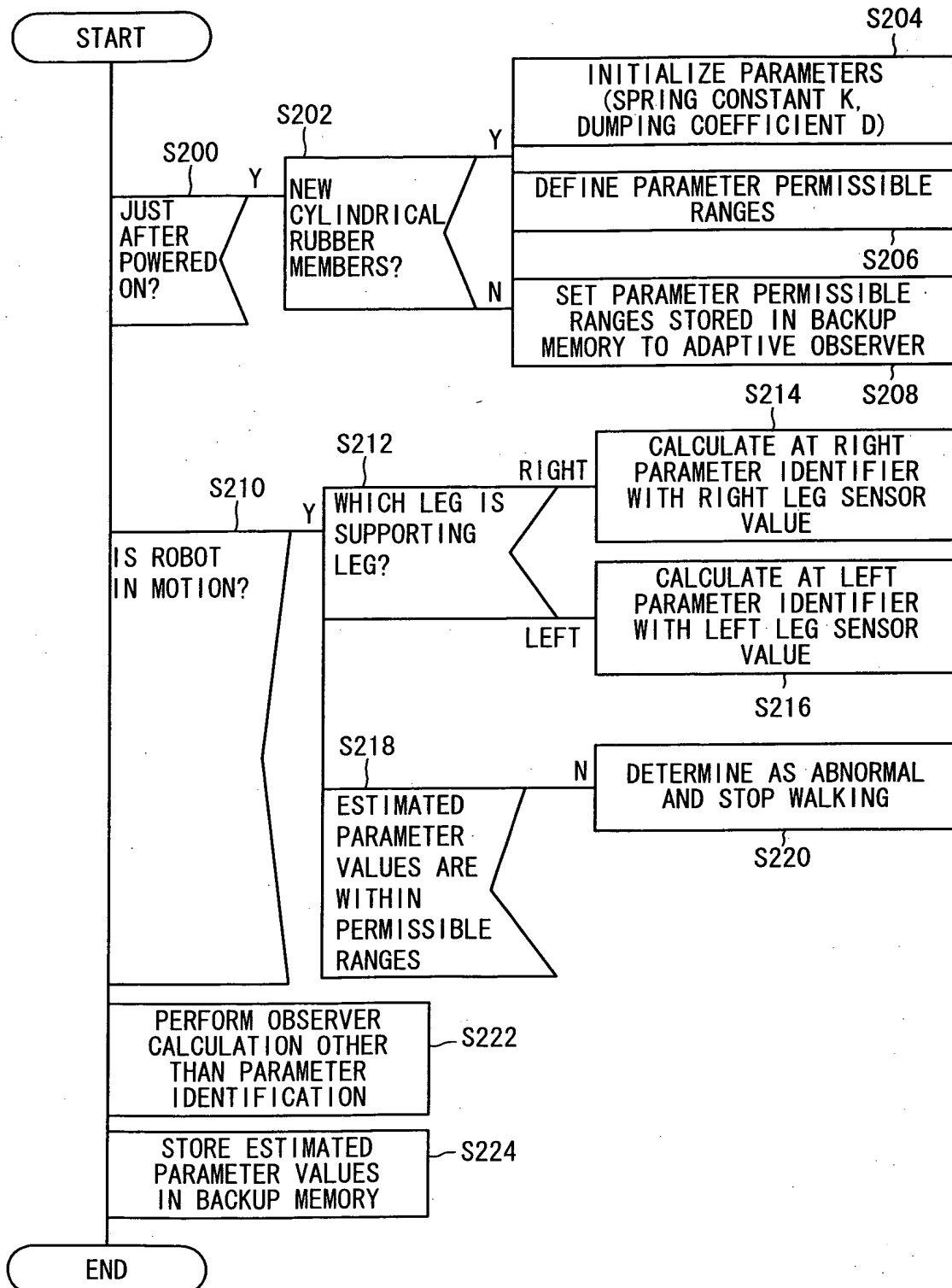


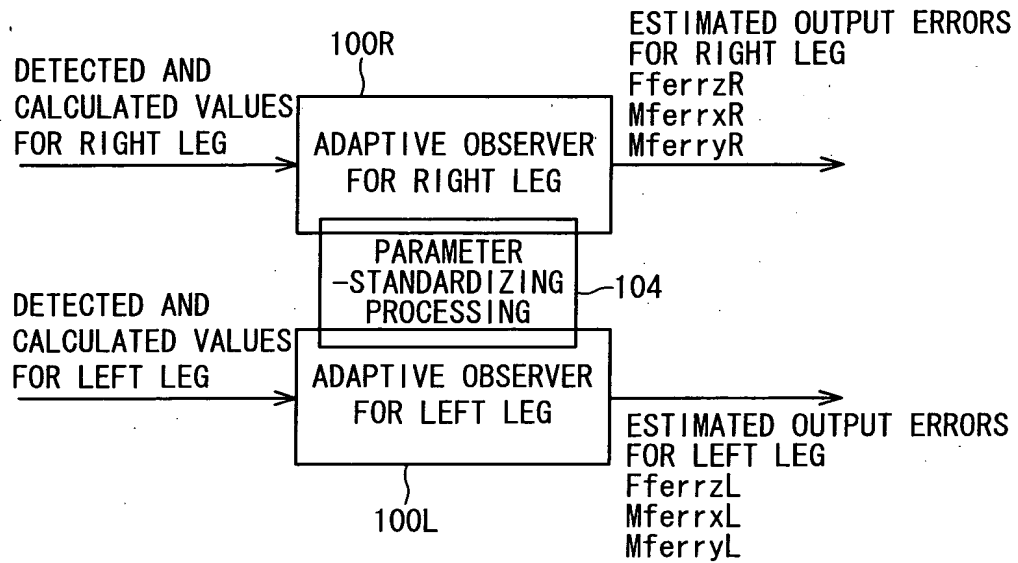
FIG. 19

FIG. 20

